Inc., for airplane electronicunauthorized external access.

- 1. The applicant must ensure airplane electronic system security protection from access by unauthorized sources external to the airplane, including those possibly caused by maintenance activity.
- 2. The applicant must ensure that electronic system security threats are identified and assessed, and that effective electronic system security protection strategies are implemented to protect the airplane from all adverse impacts on safety, functionality, and continued airworthiness.
- 3. The applicant must establish appropriate procedures to allow the operator to ensure that continued airworthiness of the airplane is maintained, including all post type certification modifications that may have an impact on the approved electronic system security safeguards.

Issued in Kansas City, Missouri, on August 30, 2022.

#### Patrick R. Mullen,

Manager, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service.

[FR Doc. 2022-19106 Filed 9-2-22; 8:45 am]

BILLING CODE 4910-13-P

#### DEPARTMENT OF TRANSPORTATION

#### **Federal Aviation Administration**

# 14 CFR Part 25

[Docket No. FAA-2022-1146; Special Conditions No. 25-828-SC]

Special Conditions: L2 Consulting Services, Inc., Bombardier Model BD– 700–1A10 and BD–700–1A11 Airplanes; Electronic System Security Protection From Unauthorized Internal Access

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final special conditions; request

for comments.

SUMMARY: These special conditions are issued for the Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes. These airplanes, as modified by L2 Consulting Services, Inc., will have a novel or unusual design feature when compared to the state of technology envisioned in the airworthiness standards for transport-category airplanes. This design feature is associated with the installation of a digital system that contains a wireless and hardwired network with hosted application functionality that allows access, from sources internal to the

airplane, to the airplane's internal electronic components. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

DATES: This action is effective on L2 Consulting Services, Inc., on September 6, 2022. Send comments on or before

**ADDRESSES:** Send comments identified by Docket No. FAA-2022-1146 using any of the following methods:

October 21, 2022.

- Federal eRegulations Portal: Go to https://www.regulations.gov/ and follow the online instructions for sending your comments electronically.
- Mail: Send comments to Docket Operations, M–30, U.S. Department of Transportation (DOT), 1200 New Jersey Avenue SE, Room W12–140, West Building Ground Floor, Washington, DC 20590–0001.
- Hand Delivery or Courier: Take comments to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE, Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.
- *Fax:* Fax comments to Docket Operations at 202–493–2251.

Privacy: Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in title 14, Code of Federal Regulations (14 CFR) 11.35, the FAA will post all comments received without change to <a href="https://www.regulations.gov/">https://www.regulations.gov/</a>, including any personal information you provide. The FAA will also post a report summarizing each substantive verbal contact received about these special conditions.

Confidential Business Information: Confidential Business Information (CBI) is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to these special conditions contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to these special conditions, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as "PROPIN." The FAA will treat such marked submissions as

confidential under the FOIA, and the indicated comments will not be placed in the public docket of these special conditions. Send submissions containing CBI to Thuan T. Nguyen, Aircraft Information Systems, AIR-622, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service, Federal Aviation Administration, 2200 South 216th Street, Des Moines, Washington 98198; telephone; 206-231-3365; email Thuan.T.Nguyen@faa.gov. Comments the FAA receives, which are not specifically designated as CBI, will be placed in the public docket for these special conditions.

Docket: Background documents or comments received may be read at https://www.regulations.gov/ at any time. Follow the online instructions for accessing the docket or go to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE, Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

#### FOR FURTHER INFORMATION CONTACT:

Thuan T. Nguyen, Aircraft Information Systems, AIR–622, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service, Federal Aviation Administration, 2200 South 216th Street, Des Moines, Washington 98198; telephone; 206–231–3365; email *Thuan.T.Nguyen@faa.gov*.

supplementary information: The substance of these special conditions has been published in the Federal Register for public comment in several prior instances with no substantive comments received. Therefore, the FAA finds, pursuant to 14 CFR 11.38(b), that new comments are unlikely, and notice and comment prior to this publication are unnecessary.

## **Comments Invited**

The FAA invites interested people to take part in this rulemaking by sending written comments, data, or views. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data.

The FAA will consider all comments received by the closing date for comments. The FAA may change these special conditions based on the comments received.

# Background

On October 1, 2021, L2 Consulting Services, Inc., applied for a supplemental type certificate for the installation of a digital system that contains a wireless and hardwired network with hosted application functionality that allows access, from sources internal to the airplane, to the airplane's internal electronic components. The Bombardier Model BD-700-1A10 and BD-700-1A11 airplanes are twin-engine business jets with a maximum takeoff weight of 93,500 pounds (42,410 Kg) and a maximum seating capacity of seventeen passengers and two crew members.

## **Type Certification Basis**

Under the provisions of title 14, Code of Federal Regulations (14 CFR) 21.101, L2 Consulting Services Inc., must show that the Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes, as changed, continue to meet the applicable provisions of the regulations listed in Type Certificate No. T00003NY, or the applicable regulations in effect on the date of application for the change, except for earlier amendments as agreed upon by the FAA.

If the Administrator finds that the applicable airworthiness regulations (e.g., 14CFR part25) do not contain adequate or appropriate safety standards for the Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes, because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

Special conditions are initially applicable to the model for which they are issued. Should the applicant apply for a supplemental type certificate to modify any other model included on the same type certificate to incorporate the same novel or unusual design feature, these special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes must comply with the fuel-vent and exhaust-emission requirements of 14 CFR part 34, and the noise-certification requirements of 14 CFR part 36.

The FAA issues special conditions, as defined in 14 CFR 11.19, in accordance with § 11.38, and they become part of the type certification basis under § 21.101.

#### **Novel or Unusual Design Feature**

The Bombardier Model BD-700-1A10 and BD-700-1A11 airplanes will incorporate the following novel or unusual design feature, which is the installation of a digital system that contains a wireless and hardwired network with hosted application functionality that allows access, from

sources internal to the airplane, to the airplane's internal electronic components.

## Discussion

The Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes electronic system architecture and network configuration change is novel or unusual for commercial transport airplanes because it is composed of several connected wireless and hardwired networks. This proposed system and network architecture is used for a diverse set of airplane functions, including:

- flight-safety related control and navigation systems,
- airline business and administrative support, and
  - passenger entertainment.

The airplane's control domain and airline information services domain of these networks perform functions required for the safe operation and maintenance of the airplane. Previously, these domains had very limited connectivity with other network sources. This network architecture creates a potential for unauthorized persons to access the aircraft control domain and airline information services domain from sources internal to the airplane, and presents security vulnerabilities related to the introduction of computer viruses and worms, user errors, and intentional sabotage of airplane electronic assets (networks, systems, and databases) critical to the safety and maintenance of the airplane.

The existing FAA regulations did not anticipate these networked airplanesystem architectures. Furthermore, these regulations and the current guidance material do not address potential security vulnerabilities, which could be exploited by unauthorized access to airplane networks, data buses, and servers. Therefore, these special conditions ensure that the security (i.e., confidentiality, integrity, and availability) of airplane systems will not be compromised by unauthorized hardwired or wireless electronic connections from within the airplane. These special conditions also require the applicant to provide appropriate instructions to the operator to maintain all electronic-system safeguards that have been implemented as part of the original network design so that this feature does not allow or reintroduce security threats.

These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

## **Applicability**

As discussed above, these special conditions are applicable to the Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes. Should L2 Consulting Services, Inc., apply at a later date for a supplemental type certificate to modify any other model included on Type Certificate No. T00003NY to incorporate the same novel or unusual design feature, these special conditions would apply to that model as well.

#### Conclusion

This action affects only a certain novel or unusual design feature on Bombardier Model BD–700–1A10 and BD–700–1A11 airplanes. It is not a rule of general applicability and affects only the applicant who applied to the FAA for approval of this feature on the airplane.

## List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

#### **Authority Citation**

The authority citation for these special conditions is as follows:

**Authority:** 49 U.S.C. 106(f), 106(g), 40113, 44701, 44702, 44704.

#### The Special Conditions

- Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued as part of the type certification basis for Bombardier Model BD-700-1A10 and BD-700-1A11 airplanes for airplane electronic-system internal access.
- 1. The applicant must ensure that the design provides isolation from, or airplane electronic-system security protection against, access by unauthorized sources internal to the airplane. The design must prevent inadvertent and malicious changes to, and all adverse impacts upon, airplane equipment, systems, networks, and other assets required for safe flight and operations.
- 2. The applicant must establish appropriate procedures to allow the operator to ensure that continued airworthiness of the airplane is maintained, including all post-type-certification modifications that may have an impact on the approved electronic-system security safeguards.

Issued in Kansas City, Missouri, on August 30, 2022.

## Patrick R. Mullen,

Manager, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service.

[FR Doc. 2022–19107 Filed 9–2–22; 8:45 am]

BILLING CODE 4910-13-P

# **DEPARTMENT OF TRANSPORTATION**

#### **Federal Aviation Administration**

#### 14 CFR Part 39

[Docket No. FAA-2022-0592; Project Identifier MCAI-2021-01023-T; Amendment 39-22168; AD 2022-18-17]

RIN 2120-AA64

# Airworthiness Directives; MHI RJ Aviation ULC (Type Certificate Previously Held by Bombardier, Inc.) Airplanes

**AGENCY:** Federal Aviation Administration (FAA), Department of Transportation (DOT).

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for certain MHI RJ Aviation ULC Model CL-600-2D24 (Regional Jet Series 900) airplanes. This AD was prompted by a report of a manufacturing error that can create dents on the lower wing plank, close to the flap arm locations at certain wing stations; as a result, cracks could develop and weaken the structural integrity of the wings before being detected by any existing required inspections. This AD requires an inspection for damage (including dents, cracks, discoloration, gouges, scratches, or other surface damage) of the lower wing plank in the flap arm areas at certain wing stations, and repair if necessary. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective October 11, 2022.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of October 11, 2022.

## ADDRESSES:

AD Docket: You may examine the AD docket at regulations.gov under Docket No. FAA–2022–0592; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket

contains this final rule, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M—30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.

Material Incorporated by Reference:

• For service information identified in this final rule, contact MHI RJ Aviation Group, Customer Response Center, 3655 Ave. des Grandes-Tourelles, Suite 110, Boisbriand, Québec J7H 0E2 Canada; North America toll-free telephone 833–990–7272 or direct-dial telephone 450–990–7272; fax 514–855–8501; email thd.crj@mhirj.com; website mhirj.com.

• You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. It is also available at regulations.gov under Docket No. FAA–2022–0592.

#### FOR FURTHER INFORMATION CONTACT:

Deep Gaurav, Aerospace Engineer, Airframe and Propulsion Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–228–7300; email 9-avs-nyaco-cos@faa.gov.

## SUPPLEMENTARY INFORMATION:

# Background

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain MHI RJ Aviation ULC Model CL-600-2D24 (Regional Jet Series 900) airplanes. The NPRM published in the Federal Register on June 2, 2022 (87 FR 33454). The NPRM was prompted by AD CF-2021-31, dated September 14, 2021, issued by Transport Canada Civil Aviation (TCCA), which is the aviation authority for Canada (referred to after this as the MCAI). The MCAI states that a manufacturing error may have resulted in dents on the lower wing plank, close to the five flap arm locations at wing station (WS) 54.55, WS 128.00, WS 179.00, WS 220.00, and WS 264.00. These dents could lead to cracks that could weaken the structural integrity of the wings before being detected by any existing required inspection.

In the NPRM, the FAA proposed to require an inspection for damage

(including dents, cracks, discoloration, gouges, scratches, or other surface damage) of the lower wing plank in the flap arm areas at certain wing stations, and repair if necessary. The FAA is issuing this AD to address the unsafe condition on these products.

You may examine the MCAI in the AD docket at *regulations.gov* under Docket No. FAA–2022–0592.

# Discussion of Final Airworthiness Directive

#### Comments

The FAA received no comments on the NPRM or on the determination of the cost to the public.

#### Conclusion

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI referenced above. The FAA reviewed the relevant data and determined that air safety requires adopting this AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on this product. Except for minor editorial changes, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

#### Related Service Information Under 1 CFR Part 51

The FAA reviewed MHI RJ Aviation Service Bulletin 670BA-57-029, dated February 2, 2021. This service information specifies procedures for, among other actions, doing a detailed visual inspection for damage (including dents, cracks, discoloration, gouges, scratches, or other surface damage) of the outer aft lower skin at WS 54.55, WS 128.00, WS 179.00, WS 220.00, and WS 264.00, and repair. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

# **Costs of Compliance**

The FAA estimates that this AD affects 14 airplanes of U.S. registry. The FAA estimates the following costs to comply with this AD: